

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Ingemar Starke et al.

Art Unit : 1625

Serial No. : 10/546,005

Examiner : David K. O'Dell

Filed : August 18, 2005

Conf. No. : 8620

Title : BENZOTHIAZEPINE AND BENZOTHIOPINE DERIVATIVES

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY AND ELECTION OF
ASSIGNEE TO CONDUCT PROSECUTION TO EXCLUSION OF INVENTORS

Under 37 CFR §3.73(b) ALBIREO AB, a corporation, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

A chain of title from the inventors of the patent application identified above, to the current assignee as shown below. Copies of the assignments or other documents in the chain of title are attached.

1. From Ingemar Starke, Suzanne Alenfalk, Mats Peter Nordberg, Mikael Ulf Johan, Stig Jonas Bostrom, Malin Anita Lemurell, and Andreas Christer Wallberg to AstraZeneca AB recorded in the Patent and Trademark Office at Reel 017414, Frame 0088 on August 18, 2005 against application serial no. 10/546,005; and

2. From AstraZeneca AB to Albireo AB recorded in the Patent and Trademark Office at Reel 011679, Frame 0013 on May 13, 2009 against application serial no. 10/546,005.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

Inventor(s): Ingemar Starke et al.
Serial No. : 10/546,005
Filed : August 18, 2005
Page : 2 of 2

Attorney Docket No.: 23854-0005US1

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints practitioners associated with:

PTO CUSTOMER NO.:

26181

as its attorneys/agents to prosecute the application and to transact all business in the Patent and Trademark Office connected therewith with full powers of substitution and revocation, said appointment to be to the exclusion of the inventors and their attorneys/agents in accordance with the provisions of 37 CFR § 3.71 *et seq.* of the Patent and Trademark Office Rules of Practice.

All correspondence regarding the application should be sent to:

PTO Customer Number: 26181

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: June 25, 2009

Title: VP Operations
for ALBIREO AB

Customer No.: 26181
Fish & Richardson P.C.
Telephone: (650) 839-5070
Facsimile: (650) 839-5071

RECEIVED

APR 07 2006



DJB
DXW

UNITED STATES PATENT AND TRADEMARK OFFICE

MORGAN, LEWIS & BOCKIUS LLP

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 04, 2006

PTAS



103151937A

MORGAN LEWIS & BOCKIUS LLP
1111 PENNSYLVANIA AVENUE NW
WASHINGTON, DC 20004

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/18/2005

REEL/FRAME: 017414/0088

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 05691-5211

ASSIGNOR:

STARKE, INGEMAR

DOC DATE: 06/30/2005

ASSIGNOR:

ALENFALK, SUZANNE

DOC DATE: 06/29/2005

ASSIGNOR:

NORDBERG, MATS PETER

DOC DATE: 06/29/2005

ASSIGNOR:

DAHLSTROM, MIKAEL ULF JOHAN

DOC DATE: 06/27/2005

ASSIGNOR:

BOSTROM, STIG JONAS

DOC DATE: 07/04/2005

ASSIGNOR:

LEMURELL, MALIN ANITA

DOC DATE: 07/01/2005

56291-5211
DOCKETED
By ATI Date 4/7/06

ASSIGNOR:

WALLBERG, ANDREAS CHRISTER

DOC DATE: 06/29/2005

ASSIGNEE:

ASTRAZENECA AB
S-151 85 SODERTALJE, SWEDEN

SERIAL NUMBER: 10546005

FILING DATE: 08/18/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: BENZOTHIAZEPINE AND BENZOTHIOPINE DERIVATIVES

ANTIONE ROYALL, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

10/546005

01-05-2006

FORM PTO-1595
(Rev. 6-93)

103151937

PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
R SHEET

Attorney Docket No.: 05691-5211

To the Commissioner for Patents ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1. Ingemar STARKE
2. Suzanne ALENFALK
3. Mats Peter NORDBERG
4. Mikael Ulf Johan DAHLSTROM
5. Stig Jonas BOSTROM
6. Malin Anita LEMURELL
7. Andreas Christer WALLBERG

Additional names of conveying party(ies) attached?

[] Yes [X] No

2. Name and address of receiving party(ies):

Name: AstraZeneca AB

Internal Address:

Street Address: S-151 85 Sodertalje, Sweden

City:

State:

Zip:

3. Nature of conveyance:

- [X] Assignment [] Merger
 [] Security Agreement [] Change of Name
 [] Other _____

Execution Dates: 1. June 30, 2005, 2. June 29, 2005,
 3. June 29, 2005, 4. June 27, 2005, 5. July 4, 2005,
 6. July 1, 2005 and 7. June 29, 2005

Additional name(s) & address(es) attached?

[] Yes [X] No

4. New Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

1. June 30, 2005, 2. June 29, 2005, 3. June 29, 2005, 4. June 27, 2005,

08/24/2005 MKAYPAH 00000094 500310 10546005 July 4, 2005, 6. July 1, 2005 and 7. June 29, 2005

06 FC:8021

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Donald J. Bird

Internal Address: Morgan, Lewis & Bockius LLP
Customer No. 09629Street Address: 1111 Pennsylvania Avenue, N.W.
City: Washington State: D.C. Zip: 20004

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00

[X] Authorized to be charged to Deposit Account 50-0310

8. Deposit Account No. 50-0310
(Attach duplicate page if paying by deposit account)

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Donald J. Bird Reg. No. 25,323

Name of Person Signing

Signature

August 18, 2005

Date

Total number of pages including cover sheet, attachments and documents: 4

ATTORNEY DOCKET NO.:

ASSIGNMENT

Now, therefore, for good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, I/we

STARKE, Ingemar; ALENFALK, Suzanne; NORDBERG, Mats, Peter; DAHLSTROM, Mikael, Ulf, Johan; BOSTROM, Stig, Jonas; LEMURELL, Malin, Anita and WALLBERG, Andreas, Christer of AstraZeneca R&D Mölndal, SE-431 83 Mölndal, Sweden

hereafter referred to as ASSIGNOR (S),

Hereby sell(s), assign(s) and transfer(s) to ASSIGNEE AstraZeneca AB, a company created and existing under the laws of Sweden, having its Head Office at SE-151 85 Södertälje, Sweden, and the successors, assigns and legal representatives of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, in and to the inventions and any and all improvements thereon which are the subject of an application entitled:

BENZOTHIAZEPINE AND BENZOTHIOPINE DERIVATIVES

And which is disclosed in:

- (a) U.S. patent application executed on even date herewith;
- (b) U.S. patent application executed on _____;
- (c) U.S. application no. _____ filed on _____;
- (d) International application no. PCT/GB2004/000695 filed on 23 February 2004 (23.02.2004).

And in and to the above application and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to any division, continuation or continuation-in-part, renewal or substitute thereof, and in and to all resulting Letters Patents or any reissue or reexamination thereof, to have and to hold the same to the full end of the term or terms for which any and all of said Letters Patent may be granted;

ASSGNOR(S) authorize(s) and request(s) the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns;

ASSIGNOR(S) hereby covenant(s) that ASSIGNOR(S) has/have the full power to make this assignment, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by the ASSIGNEE or its successors and assigns, ASSIGNOR(S) further covenant(s) and agree(s) to communicate to said ASSIGNEE or its representatives, agents, its successors or assigns, any facts relating to said invention or inventions including evidence for purposes of interference or other administrative or legal proceedings whenever requested; to testify in any interference, legal or administrative proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

Ingemar Starke
STARKE, Ingemar
Signature of Assignor

30 June 2005
Date of Assignor's Signature

WITNESSED BY:

Monika Sehlstedt
Signature of Witness
Name of Witness
(Type or print clearly)

Sanna von Sydon
Signature of Witness
Name of Witness
(Type or print clearly)

MONIKA SEHLSTEDT

Lena von Sydon

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

Suzanne Alenfalk
ALENFALK, Suzanne
Signature of Assignor

29 June 2005

Date of Assignor's Signature

WITNESSED BY:

Ronne Olsson
Signature of Witness
Name of Witness
(Type or print clearly)

Kosrat Amin
Signature of Witness
Name of Witness
(Type or print clearly)

ROINE OLSSON

KOSRAT AMIN

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

Peter Nordberg
NORDBERG, Mats, Peter
Signature of Assignor

29 June 2005

Date of Assignor's Signature

WITNESSED BY:

Tore Skjæret
Signature of Witness
Name of Witness
(Type or print clearly)

Ronne Olsson
Signature of Witness
Name of Witness
(Type or print clearly)

TORE SKJÆRET

ROINE OLSSON

Additional signature pages attached: Yes No

Mikael Dahlstrom

DAHLSTROM, Mikael, Ulf, Johan
Signature of Assignor

WITNESSED BY:

Mikael Dahlstrom

Signature of Witness
Name of Witness
(Type or print clearly)

TORF SKJERET

Ruine Olsson

Date of Assignor's Signature

Ruine Olsson

Signature of Witness
Name of Witness
(Type or print clearly)

RUINE OLSSON

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

Jonas Bostrom

BOSTROM, Sten, Jonas
Signature of Assignor

4 July 2005

Date of Assignor's Signature

WITNESSED BY:

Johan Ulander

Signature of Witness
Name of Witness
(Type or print clearly)

Xavier Girone

Johan Ulander

Signature of Witness
Name of Witness
(Type or print clearly)

Johan Ulander

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

Malin Lemurell

LEMURELL, Malin, Anita
Signature of Assignor

1 July 2005

Date of Assignor's Signature

WITNESSED BY:

Ruth Bylund

Signature of Witness
Name of Witness
(Type or print clearly)

Ruth Bylund

Kay Brickman

Signature of Witness
Name of Witness
(Type or print clearly)

KAY BRICKMAN

Andreas Wallberg

WALLBERG, Andreas, Christer
Signature of Assignor

29 June 2005

Date of Assignor's Signature

WITNESSED BY:

Kenneth Granby

Signature of Witness
Name of Witness
(Type or print clearly)

KENNETH GRANBERG

Monika Sehlstedt

Signature of Witness
Name of Witness
(Type or print clearly)

Monika Sehlstedt

Additional signature pages attached: Yes No

TO: RICHARD G. BONE COMPANY: FISH & RICHARDSON P.C.

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 14, 2009

500858937A

PTAS

RICHARD G. BONE
FISH & RICHARDSON P.C.
P.O.BOX 1022
MINNEAPOLIS, MN 55440-1022

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 05/13/2009

REEL/FRAME: 022679/0013
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 23854-0005US1

ASSIGNOR:
ASTRAZENECA AB

DOC DATE: 02/14/2008

ASSIGNEE:
ALBIREO AB
ARVID WALLGREN'S BACKE 20
GOTEBORG, SWEDEN SE-413 46

SERIAL NUMBER: 10546005 FILING DATE: 08/18/2005
PATENT NUMBER: ISSUE DATE:
TITLE: BENZOTHIAZEPINE AND BENZOTHIEPINE DERIVATIVES

TO:RICHARD G. BONE COMPANY:FISH & RICHARDSON P.C.

022679/0013 PAGE 2

ASSIGNMENT SERVICES BRANCH
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TO: RICHARD G. BONE COMPANY: FISH & RICHARDSON P.C.

PATENT ASSIGNMENTElectronic Version v1.1
Stylesheet Version v1.105/13/2009
500858937

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AstraZeneca AB	02/14/2008

RECEIVING PARTY DATA

Name:	Albireo AB
Street Address:	Arvid Wallgrens Backe 20
City:	Goteborg
State/Country:	SWEDEN
Postal Code:	SE-413 46

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10546005

CORRESPONDENCE DATA

Fax Number: (877)769-7945

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (650) 839-5070

Email: abriam@fr.com

Correspondent Name: Richard G. Bone

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

CH \$40.00 10546005

ATTORNEY DOCKET NUMBER:	23854-0005US1
NAME OF SUBMITTER:	Richard G. A. Bone

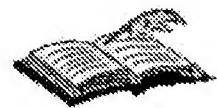
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Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
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NATURE OF CONVEYANCE:	ASSIGNMENT
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CONVEYING PARTY DATA

Name	Execution Date
AstraZeneca AB	02/14/2008

RECEIVING PARTY DATA

Name:	Albireo AB
Street Address:	Arvid Wallgrens Backe 20
City:	Goteborg
State/Country:	SWEDEN
Postal Code:	SE-413 46

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10546005

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Fax Number: (877)769-7945
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: (650) 839-5070
Email: abriam@fr.com
Correspondent Name: Richard G. Bone
Address Line 1: FISH & RICHARDSON P.C.
Address Line 2: P.O.BOX 1022
Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	23854-0005US1
NAME OF SUBMITTER:	Richard G. A. Bone
Signature:	/Richard G. A. Bone/
Date:	05/13/2009
Total Attachments: 2 source=Executed Assignment for 23854-0005US1#page1.tif source=Executed Assignment for 23854-0005US1#page2.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT876720
Receipt Date:	05/13/2009
Fee Amount:	\$40

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PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
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Name	Execution Date										
AstraZeneca AB	02/14/2008										
RECEIVING PARTY DATA											
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Name:	Albireo AB										
Street Address:	Arvid Wallgrens Backe 20										
City:	Goteborg										
State/Country:	SWEDEN										
Postal Code:	SE-413 46										
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<table border="1"><tr><th>Property Type</th><th>Number</th></tr><tr><td>Application Number:</td><td>10546005</td></tr></table>		Property Type	Number	Application Number:	10546005						
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<p>Fax Number: (877)769-7945 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p>											
<p>Phone: (650) 839-5070 Email: abriam@fr.com</p>											
<p>Correspondent Name: Richard G. Bone Address Line 1: FISH & RICHARDSON P.C. Address Line 2: P.O.BOX 1022 Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>											
ATTORNEY DOCKET NUMBER:	23854-0005US1										
NAME OF SUBMITTER:	Richard G. A. Bone										

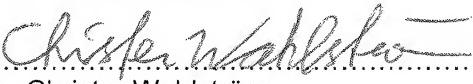
Signature:	/Richard G. A. Bone/
Date:	05/13/2009
Total Attachments: 2 source=Executed Assignment for 23854-0005US1#page1.tif source=Executed Assignment for 23854-0005US1#page2.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT876720
Receipt Date:	05/13/2009
Fee Amount:	\$40

ASSIGNMENT

The effective date of this Assignment is **February 14, 2008**. In consideration of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **AstraZeneca AB**, a corporation organized and existing under the laws of Sweden, and having an office for the transaction of business at S-151 85 Södertälje, Sweden ("**ASSIGNOR**"), and owner of the entire right, title and interest in the U.S. Patent Application Serial Numbers identified on the attached Schedule, hereby sells, assigns and transfers to **Albireo AB**, a corporation organized and existing under the laws of Sweden, and having an office for the transaction of business at Arvid Wallgrens Backe 20, SE-413 46 Göteborg, Sweden ("**ASSIGNEE**"), its entire right, title and interest in the U.S. Patent Application Serial Numbers identified on the attached Schedule, to be held and enjoyed by the ASSIGNEE, its successors, and assigns, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment and sale not been made.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the day and year stated above.

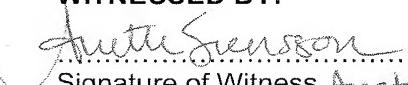
Assignor: **AstraZeneca AB**

By: 

Name: Christer Wahlström

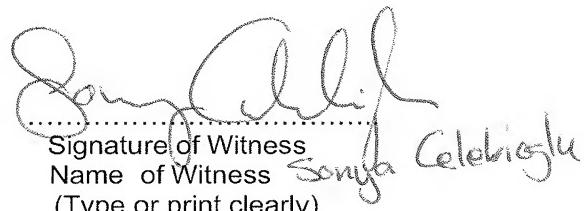
Title: Senior Director Corporate IP & Risk Management

WITNESSED BY:

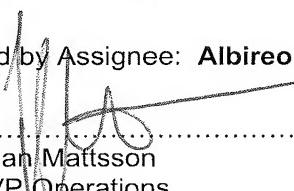
.....
Signature of Witness Anette Siensson

Name of Witness

(Type or print clearly)

.....
Signature of Witness
Name of Witness Sonya Celebioglu
(Type or print clearly)

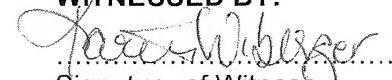
Accepted by Assignee: **Albireo AB**

By: 

Name: Jan Mattsson

Title: VP Operations

WITNESSED BY:

.....
Signature of Witness

Name of Witness

(Type or print clearly)

Karin Wibeiger

.....
Signature of Witness

Name of Witness

(Type or print clearly)

Terese Wallefors

Schedule of U.S. Patent Applications

Serial No.	Filing Date	Title
10/546,005	August 18, 2005	BENZOTHIAZEPINE AND BENZOTHIEPINE DERIVATIVES
10/520,939	January 12, 2005	Combination of an IBAT Inhibitor and a metal salt for the treatment of Diarrhoea